

METHOD, SYSTEM AND COMPUTER PROGRAM PRODUCT FOR  
PROVIDING ETHERENT VLAN CAPACITY REQUIREMENT ESTIMATION

ABSTRACT

[0041] A method for providing Ethernet VLAN capacity requirement estimation. The method includes receiving a VLAN that contains VLAN access ports, VLAN switches and VLAN trunks. The VLAN access ports include VLAN bandwidth requirements and VLAN class of service. The VLAN trunks include VLAN capacity counters and VLAN threshold parameters. A target access port is received from a requestor, the target access port includes a target class of service and a target bandwidth requirement. A target trunk and target switch corresponding to the target access port are determined. The target trunk corresponds to one of the VLAN trunks and the target switch corresponds to one of the VLAN switches. A bandwidth contribution of the target access port to the VLAN is calculated. The calculating is responsive to the VLAN trunks, the VLAN switches, the VLAN access ports and the target access port. The bandwidth contribution is then transmitted to the requestor.